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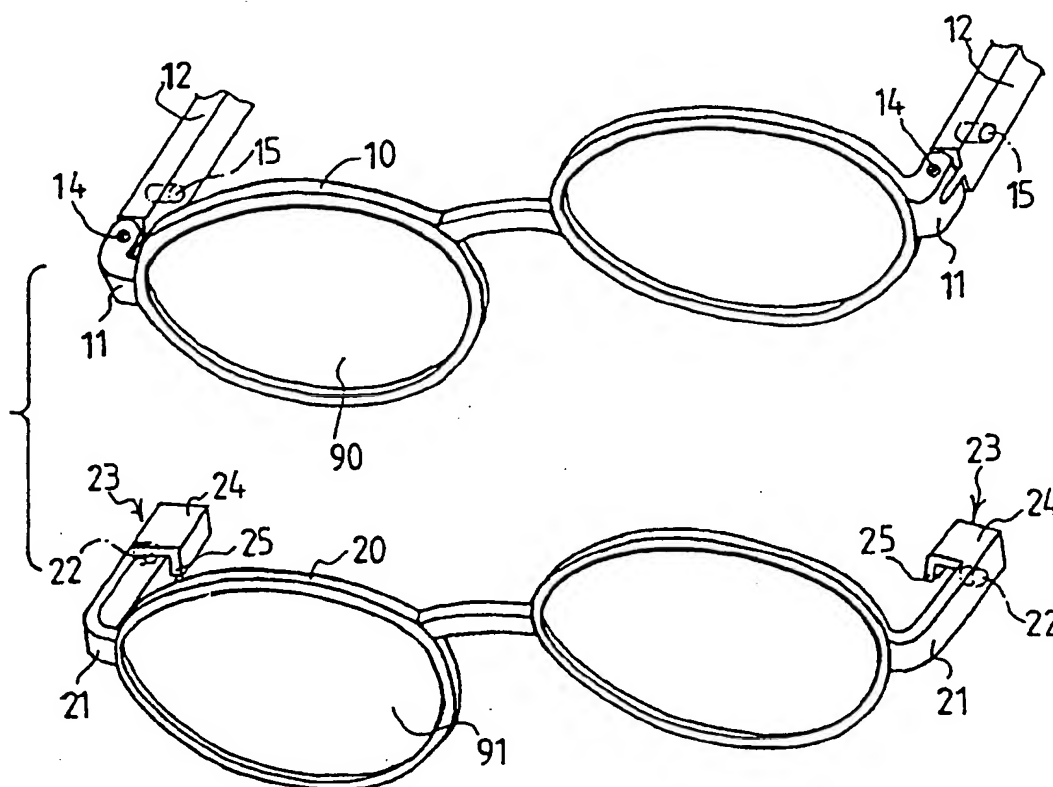
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(54) Titre : LUNETTES COMPORTANT UNE MONTURE SECONDAIRE
(54) Title: EYEGLASS APPARATUS HAVING AUXILIARY FRAME



(57) Abrégé/Abstract:

An eyeglass apparatus includes a primary frame having two side studs for pivotally coupling two legs thereto. An auxiliary frame for disposing in front of the primary frame includes two sides each having an extension for engaging with an outer portion of the adjacent leg. Each of the extensions may include a magnet for engaging with another magnet mounted in the adjacent leg or with a magnetic leg and for securing the auxiliary frame to the primary frame. Each of the extensions may include a clamping member for securing to the legs without the use of magnets.

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ABSTRACT OF THE DISCLOSURE

An eyeglass apparatus includes a primary frame having two side studs for pivotally coupling two legs thereto. An auxiliary frame for disposing in front of the primary frame includes two sides each having an extension for engaging with an outer portion of the adjacent leg. Each of the extensions may include a magnet for engaging with another magnet mounted in the adjacent leg or with a magnetic leg and for securing the auxiliary frame to the primary frame. Each of the extensions may include a clamping member for securing to the legs without the use of magnets.

TITLE: EYEGLOSS APPARATUS HAVING AUXILIARY FRAME

BACKGROUND OF THE INVENTION

1. Field of the Invention

05 The present invention relates to a pair of eyeglasses, and more particularly to a pair of eyeglasses having an auxiliary frame for supporting auxiliary lenses.

2. Description of the Prior Art

10 The closest prior art of which applicant is aware is US Patent 5,568,207 to Chao and has been assigned to the present assignee. The auxiliary frame may not be engaged with the legs.

15 The present invention has arisen to provide a novel configuration for securing the auxiliary frame to the primary frame.

SUMMARY OF THE INVENTION

20 The primary objective of the present invention is to provide an eyeglass apparatus in which the legs of the primary frame each includes a magnet for engaging with a hook and/or a magnet of the auxiliary frame for solidly and stably securing the auxiliary frame to the primary frame.

25 In accordance with one aspect of the invention, there is provided an eyeglass apparatus comprising a primary frame including two sides each having a stud, two legs pivotally coupled to the studs respectively and each including an outer portion, an auxiliary frame

for disposing in front of the primary frame, the auxiliary frame including two sides each having an extension for engaging with the outer portion of the leg, and means for securing the extensions to the legs
05 and for securing the auxiliary frame to the primary frame.

The legs are made of magnetic material, the securing means includes two magnets engaged in the extensions for engaging with the legs and for securing
10 the auxiliary frame to the primary frame.

The extensions each includes a clamping member having an arm for engaging over the leg and a flap extended downward for engaging with the leg.

The securing means includes two first magnets
15 secured in the legs and includes two second magnets secured in the extensions for engaging with the first magnets.

Further objectives and advantages of the present invention will become apparent from a careful reading
20 of a detailed description provided hereinbelow, with appropriate reference to accompanying drawings.

BRIEF DESCRIPTION OF THE DRAWINGS

FIG. 1 is an exploded view of an eyeglass apparatus having an auxiliary frame;

25 FIG. 2 is a perspective view of the eyeglass apparatus; and

FIG. 3 is a cross sectional view taken along lines

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENT

Referring to the drawings, and initially to FIGS. 1 and 2, an eyeglass apparatus in accordance with the present invention comprises a primary frame 10 for supporting primary lenses 90 and including two studs 11 formed in the side portions. Two legs 12 each is pivotally coupled to the studs 11 at a pivot shaft 14 and each includes a magnet 15 secured close to the pivot shaft 14. An auxiliary frame 20 for supporting auxiliary lenses 91 and for disposing in front of the primary frame includes two extensions 21 disposed in the side portions and extended rearward for engaging with the outer side portions of the studs 11 of the primary frame 10 respectively. The extensions 21 each includes a magnet 22 for engaging with the magnet 15 of the stud 11 and for securing the auxiliary frame 20 to the primary frame 10.

It is preferable that the extensions 21 each includes a hook member 23 having an arm 24 for engaging over the upper portion of the leg 12 and having a downward dependent flap 25 for resiliently engaging with the leg 12 and for further stably securing the auxiliary frame 20 to the primary frame 10.

Alternatively, when the legs 12 are made of magnetic material, such as metal, the magnets 22 may also engage with the legs 12 for securing the auxiliary

Alternatively, without the magnets 22, 15, the flaps 25 of the clamping members 23 of the extensions 21 may solidly engage with the legs 12 for solidly securing the auxiliary frame to the primary frame without the magnets 15.

Accordingly, the eyeglass apparatus in accordance with the present invention includes a primary frame having two magnets secured in the legs for engaging with the magnets of the auxiliary frame and for solidly and stably securing the auxiliary frame to the primary frame. The extensions of the auxiliary frame may each include a clamping member for solidly securing the auxiliary frame to the primary without the magnets.

Although this invention has been described with a certain degree of particularity, it is to be understood that the present disclosure has been made by way of example only and that numerous changes in the detailed construction and the combination and arrangement of parts may be resorted to without departing from the spirit and scope of the invention as hereinafter claimed.

1. An eyeglass apparatus comprising:

a primary frame including two sides each having a stud,

two legs pivotally coupled to said studs respectively and each including an outer portion.

an auxiliary frame for disposing in front of said primary frame, said auxiliary frame including two sides each having an extension for engaging with said outer portion of said leg, and

means for securing said extensions to said legs and for securing said auxiliary frame to said primary frame.

2. An eyeglass apparatus according to claim 1, wherein said legs are made of magnetic material, said securing means includes two magnets engaged in said extensions for engaging with said legs and for securing said auxiliary frame to said primary frame.

3. An eyeglass apparatus according to claim 1, wherein said extensions each includes a clamping member having an arm for engaging over said leg and a flap extended downward for engaging with said leg.

4. An eyeglass apparatus according to claim 1, wherein said securing means includes two first magnets secured in said legs and includes two second magnets secured in said extensions for engaging with said first magnets.

An eyeglass apparatus includes a primary frame having two side studs for pivotally coupling two legs. An auxiliary frame for disposing in front of the primary frame includes two sides each having an extensor for engaging with the outer portion of the leg. The extensions each includes a magnet for engaging with another magnet engaged in the leg or with the magnetic leg and for securing the auxiliary frame to the primary frame. The extensions each includes a clamping member for securing to the legs without the magnets.

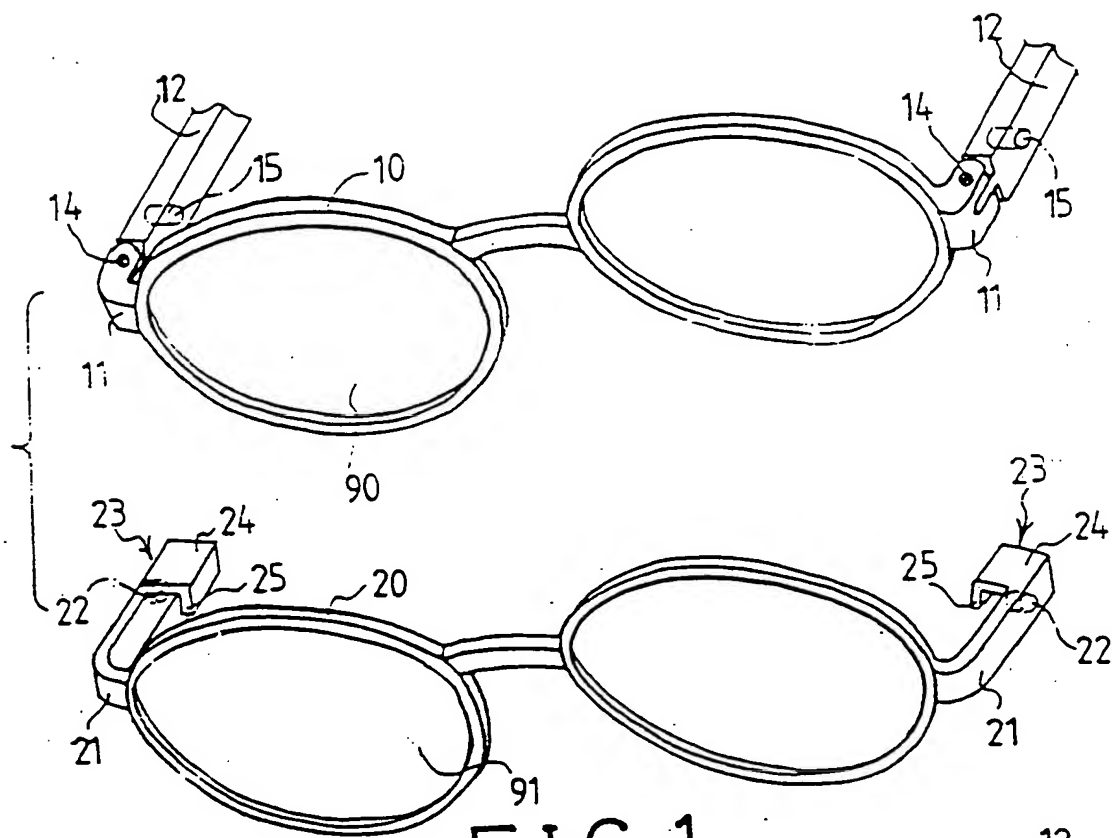


FIG. 1

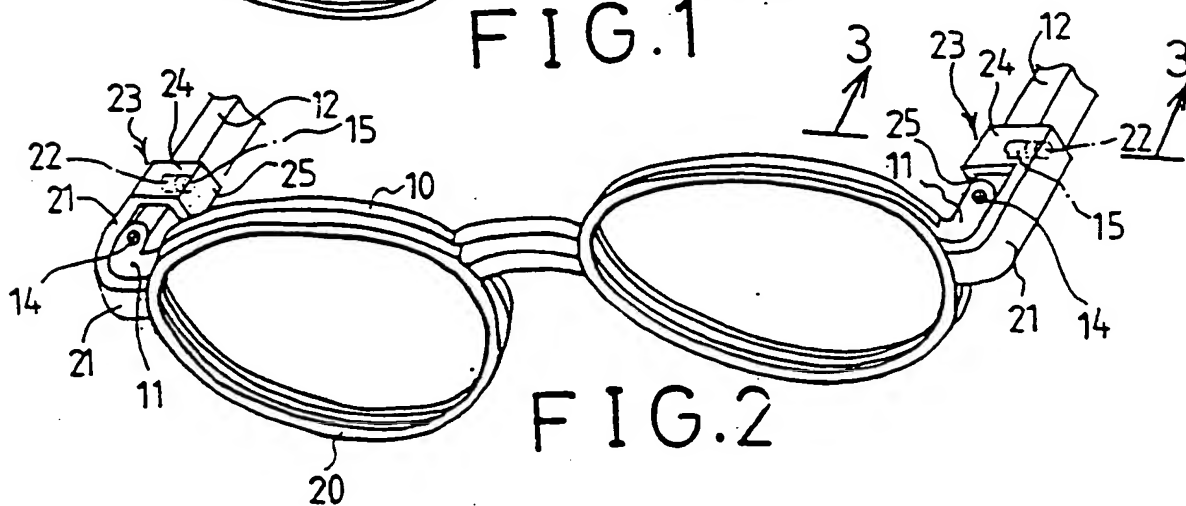


FIG. 2

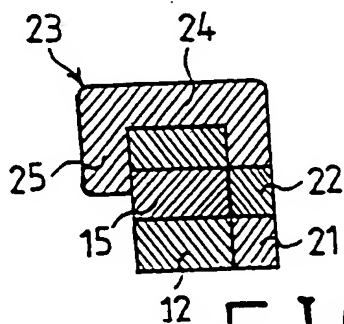


FIG. 3

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